Title (en)

SYSTEMS, METHODS, AND DEVICES FOR DETECTING VIRAL RESPIRATORY ILLNESS IN PRESYMPTOMATIC AND ASYMPTOMATIC INFECTED PERSONS

Title (de)

SYSTEME, VERFAHREN UND VORRICHTUNGEN ZUR ERKENNUNG VIRALER ATEMWEGSERKRANKUNGEN BEI PRÄSYMPTOMATISCHEN UND ASYMPTOMATISCHEN INFIZIERTEN PERSONEN

Title (fr)

SYSTÈMES, MÉTHODES ET DISPOSITIFS POUR DÉTECTER UNE MALADIE RESPIRATOIRE VIRALE CHEZ DES PERSONNES INFECTÉES PRÉSYMPTOMATIQUES ET ASYMPTOMATIQUES

Publication

EP 4362776 A1 20240508 (EN)

Application

EP 22830378 A 20220701

Priority

- US 202163217787 P 20210702
- US 2022073348 W 20220701

Abstract (en)

[origin: WO2023279082A1] Disclosed herein are systems, methods, and devices of detecting illness in presymptomatic and asymptomatic infected persons using wearable sensor technology. In a first embodiment, a method is implemented on a computing device, the method includes receiving first sensor data associated with the person over a first period of time and applying the first sensor data to a multi-variate detection model. The method further includes receiving second sensor data associated with the person over a second period of time and applying the second sensor data to the multi-variate detection model. Further the method includes determining a probability value of the illness in the person using the multi-variate detection model and transmitting the probability value to a user interface (UI).

IPC 8 full level

A61B 5/00 (2006.01); **A61B 5/01** (2006.01); **A61B 5/024** (2006.01); **A61B 5/08** (2006.01); **A61B 5/11** (2006.01); **A61B 5/1455** (2006.01); **A61B 5/332** (2021.01)

CPC (source: EP KR US)

A61B 5/0022 (2013.01 - US); **A61B 5/0024** (2013.01 - US); **A61B 5/01** (2013.01 - EP KR US); **A61B 5/024** (2013.01 - EP KR); **A61B 5/02405** (2013.01 - US); **A61B 5/08** (2013.01 - EP KR); **A61B 5/11** (2013.01 - EP KR); **A61B 5/1102** (2013.01 - US); **A61B 5/1118** (2013.01 - US); **A61B 5/1455** (2013.01 - EP KR US); **A61B 5/28** (2021.01 - US); **A61B 5/332** (2021.01 - EP KR); **A61B 5/352** (2021.01 - US); **A61B 5/4266** (2013.01 - US); **A61B 5/681** (2013.01 - US); **A61B 5/6823** (2013.01 - US); **A61B 5/742** (2013.01 - US); **G16H 10/60** (2018.01 - US); **G16H 50/20** (2018.01 - US); A61B 2505/07 (2013.01 - US); A61B 2560/045 (2013.01 - US); A61B 2560/0462 (2013.01 - US); A61B 2562/0219 (2013.01 - US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2023279082 A1 20230105; AU 2022303530 A1 20240104; CA 3222252 A1 20231211; CN 117561022 A 20240213; EP 4362776 A1 20240508; KR 20240029024 A 20240305; US 2024127954 A1 20240418

DOCDB simple family (application)

US 2022073348 W 20220701; AU 2022303530 A 20220701; CA 3222252 A 20220701; CN 202280045258 A 20220701; EP 22830378 A 20220701; KR 20247000681 A 20220701; US 202318398623 A 20231228